

IN THE CLAIMS

This listing of claims will replace all prior versions, and listing, of claims in the application:

Listing of Claims:

1. (Cancelled)

2. (Currently Amended) The system as claimed in claim [[1]] 8, ~~characterized in that wherein the respective memories in which of the components at least one component are written are physically portable and configured to be connected directly to the microcomputer.~~

B 3. (Currently Amended) The system as claimed in claim [[1]] 8, ~~characterized in that wherein the respective memories in which the commands must be written of the at least one component are fixed on the corresponding components affixed to the respective component and in that these commands said data and/or commands are remote loaded.~~

4. (Currently Amended) The system as claimed in claim [[1]] 8, ~~characterized in that wherein the man-machine interface comprises a topological checker and a syntactic and semantic checker.~~

5. (Cancelled)

6. (Cancelled)

7. (Cancelled)

8. (New) A universal graph compilation system comprising:

at least one component, each component including memory and configured to receive at least one of data or commands; and

B2 a microcomputer configured to be connected to the respective memories of the at least one component and including,

an operating system,

a compiler,

means for writing to the respective memory of each of said at least one components, the means for writing being in communication with the compiler via the operating system, and

a man-machine interface in communication with the compiler and configured to generate a graph, the man-machine interface including,

a spreadsheet comprising a plurality of cells, the spreadsheet associated with a library of (i) graphical symbols including symbols representing an elementary component function and symbols representing links relating the elementary component function symbols and (ii) codes which correspond with the graphical symbols, and

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a syntactic and semantic checker configured to use the codes corresponding to the graphical symbols to check whether the syntactic and semantic rules of the generated graph have been complied with;

wherein (a) to generate the graph, the graphical symbols are selected from the library and placed on the spreadsheet, (b) each of the graphical symbols is represented on the spreadsheet in at least one elementary square which corresponds to a cell of the plurality of cells of the spreadsheet, and (c) a connection of the graphical symbol represented in the elementary square ends at the center of one of the four sides of the elementary square.

9. (New) The system as claimed in claim 8, wherein the library codes relate to a specific parameter of the elementary component function.

10. (New) The system as claimed in claim 8, wherein the microcomputer further comprises a code generator configured to generate computer code based on the output of the compiler.

11. (New) The system as claimed in claim 10, wherein the library codes relate to parameterized computer code to be generated by the code generator.

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12. (New) The system as claimed in claim 8, wherein the library codes relate to a semantic characterization of each connection point of the elementary component function.